April 16, 2007

Date

HDP/SB/21 based on PTO/SB/21 (08-00)

APE !			Application Number	09/651,792		
TRANS!	MITTAL		Filing Date	August 30, 2000		
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(to be used fee all correspondence after initial filing)			Group Art Unit	2616		
TAADEMARK			Examiner Name	Hnah N. Nguyen		
			Attorney Docket Number	129250-001022/US		
		ENCLO	OSURES (check all that apply)			
Fee Transmittal Form		Assigni	ment Papers Application)	After Allowance Communication to Group		
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Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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IN THE U.S. PATENT AND TRADEMARK OFFICE

09/651,792

Filing Date:

August 30, 2000

Applicants:

Hongbin JI et al.

Group Art Unit:

2616

Examiner:

Justin M. Philpott

Title:

WITH **OVERBOOKING** ADMISSION CONTROL CALL

SUPPORT AND CELL LOSS RATIO AND CELL DELAY

VARIATION GUARANTEE

Attorney Docket: 129250-001022/US

APPLICANTS'/APPELLANTS' BRIEF ON APPEAL

MAIL STOP APPEAL BRIEF - PATENTS

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

April 16, 2007

U.S. Application No.: 09/651,792
Atty. Docket: 129250-001022/US

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APPELLANTS' BRIEF ON APPEAL U.S. Application No.: 09/651,792 Atty. Docket: 129250-001022/US

APPELLANTS' BRIEF ON APPEAL

I. REAL PARTY IN INTEREST:

The real party in interest in this appeal is Lucent Technologies Inc.

Assignment of the application was submitted to the U.S. Patent and Trademark

Office and recorded at Reel 011140, Frame 0401.

II. RELATED APPEALS AND INTERFERENCES:

There are no known appeals or interferences that will affect, be directly affected by, or have a bearing on the Board's decision in this Appeal.

III. STATUS OF CLAIMS:

Claims 1-5, 8-13, 39-43 and 46-52 are pending in the application, with claims 1 and 39 being written in independent form.

Claims 1-5, 8-12, 39-43, 46-50 and 52 remain finally rejected under 35 U.S.C. §102(e) and claims 13 and 51 remain finally rejected under 35 U.S.C. §103. Claims 1-5, 8-13, 39-43 and 46-52 are being appealed.

IV. STATUS OF AMENDMENTS:

A Request for Reconsideration ("Request") was filed on January 11, 2007. In an Advisory Action dated February 8, 2007, the Examiner stated that the Request was considered but did not place the application in condition for allowance.

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V. SUMMARY OF CLAIMED SUBJECT MATTER:

(i). Overview of the Subject Matter of the Independent Claims

The present invention is directed at call admission control (CAC) for asynchronous transfer mode (ATM) or Internet Protocol (IP)-based networks that incorporate differentiated services (i.e., quality-of-service (QoS) levels). More specifically, independent claim 1 reads as follows (specification citations follow in parenthesis):

1. A method for controlling call admission to a communication system comprising:

assigning a unique overbooking factor to each of a plurality of service classes, thereby ensuring no two service classes have an identical overbooking factor;

determining an effective bandwidth for each class based in part on said assigned overbooking factor and either a cell delay variation for constant bit rate service classes or a cell loss ratio for variable bit rate service classes;

determining a value of a free bandwidth in said communication system based in part on said determined effective bandwidth for each service class; and

admitting or rejecting a call based on said determined value for said free bandwidth.

(see specification, page 6, lines 3-19; page 8, lines 5-8; page 9, lines 1-4; page 11, lines 2-14, for example).

Independent claim 39 reads as follows:

- 39. An access terminal for performing call admission control for a communications system, comprising:
 - a multiplexer/demultiplexer unit; and
- a programmed processor, coupled to said multiplexer/demultiplexer unit, operable to:
- assign a unique overbooking factor to each of a plurality of service classes, thereby ensuring no two service classes have an identical overbooking factor;

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determine an effective bandwidth for each class based in part on said assigned overbooking factor and either a cell delay variation for constant bit rate service classes or a cell loss for variable bit rate service classes;

determine a value of a free bandwidth in said communication system based in part on said determined effective bandwidth for each service class; and

admit or reject a call based on said determined value for said free bandwidth.

(see specification, page 6, lines 3-19; page 8, lines 5-8; page 9, lines 1-4; page 11, lines 2-14; page 20, lines 6-21; page 21, line 20 to page 22, line 1, for example).

In order to make the overview set forth above concise the disclosure that has been included, or referred to, above only represents a portion of the total disclosure set forth in the Specification that supports the independent claims.

(ii). The Remainder of the Specification Also Supports the Claims

The Appellants note that there may be additional disclosure in the Specification that also supports the independent and dependent claims. Further, by referring to the disclosure above the Appellants do not represent that this is the only evidence that supports the independent claims nor do Appellants necessarily represent that this disclosure can be used to fully interpret the claims of the present invention. Instead, this disclosure is an overview of the claimed subject matter.

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL:

Appellants seek the Board's review and reversal of the rejection of claims 1-5, 8-12, 39-43, 46-50 and 52 under 35 U.S.C. §102(e) based on U. S. Patent No. 5,982,748 to Yin et al. ("Yin") and claims 13 and 51 under 35 U.S.C. §103(a) based on Yin in view of U.S. Patent No. 6, 608,815 to Huang et al. ("Huang").

VII. ARGUMENTS:

A. The Section 102 Rejections Based on Yin

The Final Office Action states that claims 1-5, 8, 9, 12, 39-43, 46, 47, 50 and 52 have been rejected under 35 U.S.C. §102(e) based on Yin. Appellants believe the Examiner also intended to include claims 10, 11, 48 and 49 as well. Appellants will proceed on this basis unless the Examiner indicates otherwise. The Appellants respectfully request, however, that the Examiner clarify his position. As for the rejections, the Appellants respectfully disagree for at least the following reasons.

It is respectfully submitted that Yin does not disclose the feature of determining an effective bandwidth for each class of service based in part on an assigned overbooking factor and one of either a cell delay variation or cell loss.

In the Final Office Action, the Examiner relies on Yin as disclosing an "effective bandwidth" and directs the Appellants' attention to column 7, lines 25-35 of Yin in support of his position. Appellants respectfully submit, however, that these excerpts do not describe the claimed effective bandwidth. Instead, these excerpts define an allocation factor that is based on an "Actual Usage" parameter and/or a "subscribed bandwidth", A(i), parameter. Appellants submit that neither parameter is akin to, nor suggestive of, the claimed effective bandwidth.

More specifically, on pages 6 through 11 of the present specification the computations of effective bandwidth for CBR and VBR traffic classes are presented. With respect to CBR traffic, it is noted that an effective bandwidth may be computed based on a cell delay variation. Neither the Actual Usage nor the subscribed bandwidth parameters disclosed in Yin appear to be so computed. For example, Yin discloses that the subscribed bandwidth parameter for CBR traffic is derived from "the sum of all PCR [peak cell rate]

APPELLANTS' BRIEF ON APPEAL U.S. Application No.: 09/651,792 Atty. Docket: 129250-001022/US

values" (column 6, lines 60-65), not from cell delay variations. As such, Yin represents the known method of using cell rates to compute a CBR bandwidth parameter. However, Yin fails to appreciate that, for CBR traffic, only the cell delay variation needs to be used. This was a discovery of the present inventors (see page 6, lines 13-22).

In the Advisory Action the Examiner refers the Appellants to column 3, line 45 to column 4, line 8 and Table 1 of Yin as disclosing a "subscribed bandwidth" based on "respective booking factors and respective cell variations, cell loss ratio." However, instead of recognizing that cell delay variations may directly be used to compute CBR effective bandwidths, Yin states that the variations are first used to "specify the Peak Cell Rate" (see Yin column 3, lines 63-64) which it then uses to calculate CBR bandwidths.

Because Yin does not disclose each and every feature of the rejected claims, it cannot be a basis for anticipating these claims under §102(e). Accordingly, Appellants respectfully request that the members of the Board reverse the decision of the Examiner, withdraw these rejections and allow claims 1-5, 8-12, 39-43, 46-50 and 52.

B.) The Section 103 Rejections Based on Yin and Huang

Claims 13 and 51 were rejected under 35 U.S.C. §103(a) as being unpatentable over Yin in view of Huang.

Initially it is noted that claim 13 depends from claim 1 and claim 51 depends from claim 39. In addition, it is noted that Huang does not make up for the deficiencies of Yin discussed above.

Accordingly, Appellants respectfully request that the members of the Board reverse the decision of the Examiner, withdraw these rejections and allow claims 13 and 51.

APPELLANTS' BRIEF ON APPEAL U.S. Application No.: 09/651,792 Atty. Docket: 129250-001022/US

Conclusion:

Appellants respectfully request that members of the Board reverse the decision of the Examiner and allow claims 1-5, 8-13, 39-43 and 46-52.

The Commissioner is authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 50-3777 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

Capitol Patent & Traglemark Law Firm, PLLC

By:

John E. Curtin, Reg. No. 37,602

P.O. Box 1995 Vienna, VA 22183 (703)266-3330

U.S. Application No.: 09/651,792

Atty. Docket: 129250-001022/US



VIII. CLAIMS APPENDIX

A method for controlling call admission to a communication system comprising:

assigning a unique overbooking factor to each of a plurality of service classes, thereby ensuring no two service classes have an identical overbooking factor;

determining an effective bandwidth for each class based in part on said assigned overbooking factor and either a cell delay variation for constant bit rate service classes or a cell loss ratio for variable bit rate service classes;

determining a value of a free bandwidth in said communication system based in part on said determined effective bandwidth for each service class; and

admitting or rejecting a call based on said determined value for said free bandwidth.

2. The method according to claim 1, wherein said step of determining a free bandwidth further comprises:

determining a maximum bandwidth at a port in the communication system; and

subtracting at least a portion of the effective bandwidth for each class from said maximum bandwidth.

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3. The method according to claim 2, wherein said step of subtracting

further comprises:

dividing the effective bandwidth for each class by its assigned

overbooking factor to produce a result; and

subtracting said result from said maximum bandwidth.

4. The method according to claim 1, wherein said step of admitting or

rejecting further comprises:

admitting said call if said free bandwidth is greater than zero.

5. The method according to claim 4, wherein said step of admitting or

rejecting further comprises:

rejecting said call if said free bandwidth is less than zero.

6. (Cancelled).

7. (Cancelled).

8. The method according to claim 1, wherein said variable bit rate

classes include a real time variable bit rate class.

9. The method according to claim 1, wherein said variable bit rate

classes include a non-real time variable bit rate class.

10. The method according to claim 1, wherein said assigned

overbooking factor has a default value indicating no overbooking.

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The method according to claim 10, wherein said default value is 1. 11.

The method according to claim 1, wherein said communication 12.

system is an ATM network.

The method according to claim 1, wherein said communication 13.

system is an IP network.

14. (Withdrawn) A method for performing bookkeeping

communication system when a new connection setup is requested comprising:

calculating an effective bandwidth of the new connection to meet a first

predetermined criteria;

calculating a variance for a traffic load of the new connection;

calculating a required bandwidth for all calls in the system to meet the

first predetermined criteria based in part on said effective bandwidth and said

variance of the new connection;

calculating an effective bandwidth of the new connection to meet a

second predetermined criteria;

calculating a required bandwidth for all calls in the system to meet the

second predetermined criteria;

calculating a required system bandwidth based on a maximum value for

said required bandwidth for all calls in the system to meet the first

predetermined criteria and said required bandwidth for all calls in the system

to meet the second predetermined criteria;

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comparing said required system bandwidth to a maximum bandwidth of said system; and

admitting or rejecting said call based on said comparison.

15. (Withdrawn) The method according to claim 14, further comprising:

updating state variables of the system if said call is admitted.

16. (Withdrawn) The method according to claim 14, wherein said step of admitting or rejecting further comprises:

admitting said call if said required system bandwidth is less than said maximum bandwidth.

17. (Withdrawn) The method according to claim 16, wherein said step of admitting or rejecting further comprises:

rejecting said call if said required system bandwidth is greater than said maximum bandwidth.

- 18. (Withdrawn) The method according to claim 14, wherein said first predetermined criteria is a cell loss ratio.
- 19. (Withdrawn) The method according to claim 18, wherein said second predetermined criteria is a cell delay variation.

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(Withdrawn) The method according to claim 14, wherein said step 20.

of calculating an effective bandwidth of the new connection to meet a second

predetermined criteria further comprises:

calculating an effective bandwidth of all calls in the system to meet the

second predetermined criteria.

21. (Withdrawn) The method according claim 20, further to

comprising:

updating state variables of the system if said call is admitted.

22. (Withdrawn) The method according to claim 20, wherein said step

of admitting or rejecting further comprises:

admitting said call if said required system bandwidth is less than said

maximum bandwidth.

(Withdrawn) The method according to claim 22, wherein said step 23.

of admitting or rejecting further comprises:

rejecting said call if said required system bandwidth is greater than said

maximum bandwidth.

24. (Withdrawn) The method according to claim 20, wherein said first

predetermined criteria is a cell loss ratio.

25. (Withdrawn) The method according to claim 24, wherein said

second predetermined criteria is a cell delay variation.

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(Withdrawn) The method according to claim 14, wherein said 26.

communication system is a wireless communication system.

27. (Withdrawn) A method for performing bookkeeping

communication system when an existing call requests to be released from the

system comprising:

calculating an effective bandwidth of the call requested to be released

that satisfies a first predetermined criteria;

calculating a variance for a traffic load of the call requested to be

released;

calculating a required bandwidth for all remaining calls in the system

that satisfies the first predetermined criteria;

calculating an effective bandwidth of the call requesting to be released

and all remaining calls in the system that satisfies a second predetermined

criteria;

calculating a required bandwidth for all remaining calls in the system

that satisfies the second predetermined criteria;

allocating a required system bandwidth based on a maximum value for

said required bandwidth for all remaining calls in the system that satisfies the

first predetermined criteria and said required bandwidth for all remaining calls

in the system that satisfies the second predetermined criteria; and

releasing the call requesting to be released.

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28. (Withdrawn) The method according to claim 27, wherein said step

of calculating a variance further comprises:

updating state variables of the system based on said call requesting to be

released.

29. (Withdrawn) The method according to claim 27, wherein said first

predetermined criteria is a cell loss ratio.

30. (Withdrawn) The method according to claim 29, wherein said

second predetermined criteria is a cell delay variation.

31. (Withdrawn) The method according to claim 27, wherein said

communication system is an ATM network.

32. (Withdrawn) The method according to claim 27, wherein said

communication system is an IP network.

33. (Withdrawn) A method for performing bookkeeping in a

communication system when an existing call requests to be released from the

system comprising:

determining an effective bandwidth that satisfies a first predetermined

criteria for the call requesting to be released;

calculating a variance for a traffic load of the call requesting to be

released for said first predetermined criteria;

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calculating an effective bandwidth of the call requesting to be released

that satisfies a second predetermined criteria;

calculating a variance for a traffic load of the call requesting to be

released for said second predetermined criteria;

calculating a required bandwidth of all remaining calls in the system that

satisfies the first predetermined criteria;

calculating an effective bandwidth of all remaining calls in the system

that satisfies the second predetermined criteria;

allocating a required system bandwidth based on a maximum value for

said required bandwidth for all remaining calls in the system that satisfies the

first predetermined criteria and said required bandwidth for all remaining calls

in the system that satisfies the second predetermined criteria; and

releasing the call requesting to be released.

34. (Withdrawn) The method according to claim 33, wherein said step

of calculating a variance for a traffic load of the call requested to be released for

said second predetermined criteria further comprises:

updating state variables of the system based on said call requesting to be

released.

35. (Withdrawn) The method according to claim 33, wherein said first

predetermined criteria is a cell loss ratio.

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(Withdrawn) The method according to claim 35, wherein said 36.

second predetermined criteria is a cell delay variation.

(Withdrawn) The method according to claim 33, wherein said 37.

communication system is an ATM network.

38. (Withdrawn) The method according to claim 33, wherein said

communication system is an IP network.

39. An access terminal for performing call admission control for a

communications system, comprising:

a multiplexer/demultiplexer unit; and

a programmed processor, coupled to said multiplexer/demultiplexer

unit, operable to:

assign a unique overbooking factor to each of a plurality of service

classes, thereby ensuring no two service classes have an identical overbooking

factor;

determine an effective bandwidth for each class based in part on said

assigned overbooking factor and either a cell delay variation for constant bit

rate service classes or a cell loss for variable bit rate service classes;

determine a value of a free bandwidth in said communication system

based in part on said determined effective bandwidth for each service class;

and

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admit or reject a call based on said determined value for said free bandwidth.

The access terminal according to claim 39, wherein said processor 40. is operable to:

determine a maximum bandwidth at a port in the communication system; and

subtract at least a portion of the effective bandwidth for each class from said maximum bandwidth.

The access terminal according to claim 40, wherein said processor 41. is operable to:

divide the effective bandwidth for each class by its assigned overbooking factor to produce a result; and

subtract said result from said maximum bandwidth.

42. The access terminal according to claim 39, wherein said processor is operable to:

admit said call if said free bandwidth is greater than zero.

The access terminal according to claim 42, wherein said processor 43. is operable to:

reject said call if said free bandwidth is less than zero.

(Cancelled). 44.

APPELLANTS' BRIEF ON APPEAL U.S. Application No.: 09/651,792

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45. (Cancelled).

46. The access terminal according to claim 39, wherein said variable

bit rate classes include a real time variable bit rate class.

47. The access terminal according to claim 39, wherein said variable

bit rate classes include a non-real time variable bit rate class.

48. The access terminal according to claim 39, wherein said assigned

overbooking factor has a default value indicating no overbooking.

49. The access terminal according to claim 48, wherein said default

value is 1.

50. The access terminal according to claim 39, wherein said

communication system is an ATM network.

51. The access terminal according to claim 39, wherein said

communication system is an IP network.

52. The access terminal according to claim 39, wherein said access

terminal is daisy chained to at least one other access terminal, each of said

access terminals performing said method for controlling call admission

independently of the other.

APPELLANTS' BRIEF ON APPEAL U.S. Application No.: 09/651,792 Atty. Docket: 129250-001022/US

IX. EVIDENCE APPENDIX

None.

X. RELATED PROCEEDINGS APPENDIX

None.